

## DAFTAR PUSTAKA

- Abderrezzaq, B., Kerroum, D. (2018). *Optimization Of The Coagulation Process Used In A Water Treatment Plant Using The Response Surface Methodology (RSM)*, Algerian Journal Of Engineering Research AJER.
- Adhani, L., Kartika, W., & Navanti, D. (2020). Analisis Air Buangan Kantin Di Kampus Ii Universitas Bhayangkara Jakarta Raya. Jurnal Jaring Saintek, 2(1), 13–24. <https://doi.org/10.31599/jaring-sainstek.V2i1.62>
- Aghababaei, M., Etemad-Shahidi, A., Jabbari, E., Taghipour, M. (2017). *Estimation Of Transverse Mixing Coefficient In Straight And Meandering Streams*. Water Resour. Manag. 31, 3809–3827.
- Ahammed, M. M., & Rahman, M. M. (2010). *Performance Evaluation Of A Grease Trap For Separation Of Fatty Materials From Restaurant Wastewater*. Environmental Technology, 31(6), 603–609. <https://doi.org/10.1080/09593330903357835>
- Airun, N. H. (2020). Pemanfaatan Biji Pepaya (*Carica Papaya L.*) Sebagai Biokoagulan Pada Pengolahan Limbah Cair Industri Batik. <https://dspace.uui.ac.id/handle/123456789/30456>
- Aji, A., Bahri, S., & Tantalia. (2018). "Pengaruh Waktu Ekstraksi Dan Konsentrasi HCL Untuk Pembuatan Pektin Dari Kulit Jeruk Bali." *Jurnal Teknologi Kimia Unimal*, 6(1), 33-44. DOI: [10.29103/jtku.V6i1.467](https://doi.org/10.29103/jtku.V6i1.467)
- Akbar, I., & Silmi, A. (2023). Pengolahan Limbah Minyak Dan Lemak Di Restoran Padang Dengan Metode Fisik (Oil Grease Trap). *Jurnal Techlink*, 5(2), 1–7. <https://doi.org/10.59134/jtnk.V5i2.518>
- Albrigo, L. G Dan Carter, R.D. (1977). *Structure Of Citrus Fruits In Relation To Processing*. Science And Technology, Vol. 1.
- Arman, E., Pebriansyah, R., & Novita Yusuf, R. (2021). Uji Efektivitas Antibakteri Ekstrak Kulit Jeruk Manis (*Citrus Sinensis*) Terhadap Pertumbuhan Bakteri *Staphylococcus Aureus*. *Jurnal Kesehatan Saintika Meditory*, 6, 296–296.
- Amuda, O. S., & Alade, A. (2006). Coagulation/Flocculation Process In The Treatment Of Abattoir Wastewater. *Desalination*, 196(1–3), 22–31.

- Arninda, A., Asdiana, A., & Sari, I. (2024). Pengaruh Variasi Koagulan Kulit Jeruk Untuk Menurunkan Total Suspended Solid (Tss) Pada Limbah Air Tahu. 3, 92–96. <https://doi.org/10.61844/Jtkm.V3i2.958>
- Asharuddin, S. M., Othman, N., Al-Maqtari, Q. A., Al-Towayti, W. A. H., & Arifin, S. N. H. (2023). The Assessment Of Coagulation And Flocculation Performance And Interpretation Of Mechanistic Behavior Of Suspended Particles Aggregation By Alum Assisted By Tapioca Peel Starch. *Environmental Technology And Innovation*, 32(July), 103414. <https://doi.org/10.1016/j.eti.2023.103414>
- Auliasari, N., Rantika, N., & Yuliarti, A. (2017). Formulasi Sediaan Gel Handsanitizer Ekstrak Etanol Kulit Jeruk Manis (*Citrus X Aurantium L.*) Terhadap Bakteri *Staphylococcus Epidermis*. *Jurnal Ilmiah Farmako Bahari*, 8(2), 15–21. DOI: <https://doi.org/10.52434/Jfb.V8i2.644>
- Ayed, L., Et Al. (2012). *Response Surface Methodology For Optimization Of The Treatment Of Textile Wastewater By A Novel Bacterial Consortium: Enzymes And Metabolites Characterization*. *Afr. J. Biotechnol.* 11 <https://doi.org/10.5897/Ajb11.3506>.
- Baatache, O., Derbal, K., Benalia, A., Khalfaoui, A., Bouchareb, R., Panico, A., & Pizzi, A. (2024). *Use Of Pine Cone As Bio-Coagulant For Heavy Metal Removal From Industrial Wastewater: Use Of Box–Behnken Design*. *Industrial Crops And Products*, 210(November 2023). <https://doi.org/10.1016/j.indcrop.2024.118185>
- Barqy, N. (2021). Review: Senyawa Penyusun Minyak Atsiri Kulit Jeruk Bali (*Citrus Maxima*) Dan Aktivitas Farmakologinya. *Jurnal Dunia Farmasi*, 5(2), 89–98. <https://doi.org/10.33085/Jdf.V5i2.4837>
- Bashir, M.J.K., Aziz, H.A., Yusoff, M.S., Adlan, M.N. (2010). Application Of Response Surface Methodology (Rsm) For Optimization Of Ammoniacal Nitrogen Removal From Semi-Aerobic Landfill Leachate Using Ion Exchange Resin. *Desalination* 254, 154–161.
- Bolto, B. & Gregory, J. 2007. Organic Polyelectrolytes In Water Treatment. *Water*

- Research 41 (11), 2301–2324.
- Ciriminna, R., Chavarria-Hernández, N., Hernández, A. I. R. And Pagliaro, M. (2015). *Pectin: A New Perspective From The Biorefinery Standpoint*, *Biofuels, Bioprod. Bioref.*, 9(4), 368-377. DOI: [10.1002/Bbb.1551](https://doi.org/10.1002/Bbb.1551)
- Das, N., Ojha, N., & Mandal, S. K. (2021). Wastewater Treatment Using Plant-Derived Biofloculants: Green Chemistry Approach For Safe Environment. *Water Science And Technology*, 83(8), 1797–1812. <https://doi.org/10.2166/Wst.2021.100>
- Davis, M. L., & Cornwell, D. A. (2008). *Introduction To Environmental Engineering*. McGraw-Hill.
- Divakaran, R., & Pillai, V. N. S. (2001). *Flocculation Of River Silt Using Chitosan*. *Water Research*, 35(16), 3904-3908. [https://doi.org/10.1016/S0043-1354\(01\)00436-5](https://doi.org/10.1016/S0043-1354(01)00436-5)
- Dwisaksana, A., & Tukiran, T. (2021). Ekstrak Diklorometana Kulit Batang Tumbuhan Jambu Semarang (*Syzygium Samarangense* ) Uv-Vis Spectroscopy Analysis And Ftir Compounds Of Isolated Compound From Dichloromethane Extract Of *Syzygium Samarangense* Andryan Dwisaksana Dan Tukiran Jurusan Kimia. Uv-Vis Spectroscopy Analysis And Ftir Compounds Of Isolated Compound From Dichloromethane Extract Of *Syzygium Samarangense*, 10(2), 121–127.
- Duan, J., & Gregory, J. (2003). *Coagulation By Hydrolysing Metal Salts*. *Advances In Colloid And Interface Science*, 100-102, 475-502. [https://doi.org/10.1016/S0001-8686\(02\)00067-2](https://doi.org/10.1016/S0001-8686(02)00067-2)
- Ebeling, J. M., Sibrell, P. L., Ogden, S. R., & Summerfelt, S. T. (2003). *Evaluating The Effectiveness Of Chemical Coagulation And Flocculation For Treating Aquaculture Effluents*. *Aquacultural Engineering*, 29(1-2), 23-42. [10.1016/S0144-8609\(03\)00029-3](https://doi.org/10.1016/S0144-8609(03)00029-3)
- Eddy, M. & Abu-Orf, M., Bowden, G., Burton, F. L., Pfrang, W., Stensel, H. D., Tchobanoglous, G., Tsuchihashi, R., & (Firm), A. (2014). *Wastewater Engineering: Treatment And Resource Recovery*. McGraw Hill Education.
- Erwinda, R., & Santoso, H. H. (2014). Pengaruh Konsentrasi Hcl Sebagai Pelarut

- Pada Ekstraksi Pektin Dari Labu Siam. *Konversi*, 3(2), 55–63.  
DOI: [10.24853/Konversi.3.2.%P](https://doi.org/10.24853/Konversi.3.2.%P)
- Febrianti, A. N., Ratnawati, R., & Ramadhan, M. I. (2024). *Biocoagulant Utilization From Java Tamarind Seed And Sweet Orange Peel For Turbidity, Cod And Bod Reduction In Domestic Wastewater*. *Jurnal Serambi Engineering*, 9(2), 8366–8372.
- Ferreira, S.L.C., Bruns, R.E., Ferreira, H.S., Matos, G.D., David, J.M., Brandao, G. C., Da Silva, E.G.P., Portugal, L.A., Dos Reis, P.S., Saouza, A.S., Dan Dos Santos, W.N.L. (2007). *Box- Behnken Desaign: An Alternative For The Optimazation Of Analytical Methods*. *Analytica Chimica Acta* 597, 179-186.
- Fitrah Bachtiar, A., Ms, Y., Yudi Nurul Ihsan, Y. N. I., & Pasaribu, B. (2024). Analisis Variabilitas TSS, Klorofil-A, Dan Algae Bloom Pada Daerah Limpasan Pembuangan Tambak Udang Dan Muara Sungai Di Perairan Laut Desa Mandrajaya, Teluk Ciletuh, Sukabumi. *Blantika: Multidisciplinary Journal*, 2(6), 563–574. <https://doi.org/10.57096/Blantika.V2i6.149>
- Ghebremichael, K. A., Gunaratna, K. R., Henriksson, H., Brumer, H., & Dalhammar, G. (2005). *A Simple Purification And Activity Assay Of The Coagulant Protein From Moringa Oleifera Seed*. *Water Research*, 39(11), 2338-2344. DOI: [10.1016/J.Watres.2005.04.012](https://doi.org/10.1016/J.Watres.2005.04.012)
- Hariz Amran, N. A. M., Sulaiman, S., & Sulaiman, M. (2023). Performance Optimization Of Chemical And Green Coagulants In Coagulation–Flocculation Of Tannery Wastewater. *International Journal Of Environmental Research And Public Health*, 20(5), 9939499. <https://doi.org/10.1155/2023/9939499>.
- Hassani, A., Alidokht, L., Khataee, A.R., Karaca, S. (2014). *Optimization Of Comparative Removal Of Two Structurally Different Basic Dyes Using Coal As A Low-Cost And Available Adsorbent*. *J. Taiwan Inst. Chem. Eng.* 45, 1597–1607. <https://doi.org/10.1016/J.Jtice.2013.10.014>
- Ho, Y. C., Norli, I., Alkarkhi, A. F. M., & Morad, N. (2010). Characterization Of Biopolymeric Flocculant (Pectin) And Organic Synthetic Flocculant (PAM): A Comparative Study On Treatment And Optimization In Kaolin Suspension.

- Bioresource Technology*, 101(4), 1166–1174.  
<https://doi.org/10.1016/j.biortech.2009.09.064>
- Islam, F., Akbar, F., Jurusan, \*, Lingkungan, K., & Mamuju, K. (2019). Perbandingan Toksisitas Dari Ekstrak Kulit Jeruk Manis Dan Jeruk Bali Pada Larva *Aedes Aegypti*. *Jurnal Dunia Kesmas*, 8(July 2019).  
<https://doi.org/10.33024/Jdk.V8i3.1939>
- Jain Et Al. (2022). "Moringa Oleifera Lam. Seed Proteins: Extraction, Preparation Of Protein Isolates And Applications." *Food Hydrocolloids*, 130, 107675.
- Jiang, J. Q. (2015). The Role Of Coagulation In Water Treatment. Current Opinion In Chemical Engineering, 8, 36-44. DOI:  
<https://doi.org/10.1016/j.coche.2015.01.008>
- Kancana Putra N. (2010). Optimasi Proses Ekstraksi Pektin Dami Buah Nangka (*Artocarpus Heterophyllus Lamk*) *Optimizing Of Pectin Extraction Process From Jackfruit Rags (Artocarpus Heterophyllus Lamk)*. 30(3), 158–163. DOI: <https://doi.org/10.22146/agritech.9668>
- Kaur, B., Garg, R. K., & Singh, A. P. (2020). Treatment Of Wastewater From Pulp And Paper Mill Using Coagulation And Flocculation. *Journal Of Environmental Treatment Techniques*, 9(1), 158–163.  
[https://doi.org/10.47277/Jett/9\(1\)163](https://doi.org/10.47277/Jett/9(1)163)
- Kementerian Lingkungan Hidup Republik Indonesia. (2014). Peraturan Menteri Lingkungan Hidup Republik Indonesia Nomor 5 Tahun 2014 Tentang Baku Mutu Air Limbah. *Berita Negara Republik Indonesia Tahun 2014 Nomor 234*.
- Kementerian Lingkungan Hidup Dan Kehutanan Republik Indonesia. (2016). Keputusan Menteri Lingkungan Hidup Dan Kehutanan Nomor 68 Tahun 2016 Tentang Baku Mutu Air Limbah Domestik. *Berita Negara Republik Indonesia Tahun 2016 Nomor 317*.
- Khalifaoui, A., Meniai, A.H. (2012). *Application Of Chemically Modified Orange Peels For Removal Of Copper(II) From Aqueous Solutions. Theor. Found. Chem. Eng.* 46, 732–739. <https://doi.org/10.1134/S0040579512060103>.

- Kristianto, H., Jennifer, A., Sugih, A. K., & Prasetyo, S. (2020). Potensi Polisakarida Dari Limbah Buah-Buahan Sebagai Koagulan Alami Dalam Pengolahan Air Dan Limbah Cair: Review. *Jurnal Rekayasa Proses*, 14(2), 108. <https://doi.org/10.22146/jrekpros.57798>
- Kumar, P., Sharma, A., Sharma, S., & Yadav, A. (2017). "What Compound Inside Biocoagulants/Bioflocculants Is Contributing The Most To Coagulation?" *Science Of The Total Environment*, 595, 1–10. <https://doi.org/10.1016/j.scitotenv.2017.03.227>
- Latupeirissa, J., Fransina, E. G., & Tanasale, M. F. J. D. P. (2019). Ekstraksi Dan Karakterisasi Pektin Kulit Jeruk Manis Kisar (*Citrus Sp.*). *Indonesian Journal Of Chemical Research*, 7(1), 61–68. [10.30598/ijcr.2019.7-Egf](https://doi.org/10.30598/ijcr.2019.7-Egf)
- Lestari, D., & Hidayat, R. (2021). Efektivitas Biokoagulan Dari Ekstrak Biji Kelor Dalam Menurunkan Kekeruhan Air Limbah Domestik. *Jurnal Pengelolaan Lingkungan Berkelanjutan*, 5(2), 112-120.
- Lolo, E. U., Pambudi, Y. S., Gunawan, R. I., & Widiyanto, W. (2020). Pengaruh Koagulan PAC Dan Tawas Terhadap Surfaktan Dan Kecepatan Pengendapan Flok Dalam Proses Koagulasi Flokulasi. *Jurnal Serambi Engineering*, 5(4), 1295–1305. <https://doi.org/10.32672/jse.v5i4.2315>
- Mafra, M. R., Igarashi-Mafra, L., Zuim Dall'Antonia, L. H., & Ferreira, M. A. (2010). Comparative Study Of Coagulant Agents For The Treatment Of Tannery Effluent. *Chemical Engineering Journal*, 158(3), 500–506. <https://doi.org/10.1016/j.cej.2010.01.020>.
- Maharani, V. S. (2017). Studi Literatur: Pengolahan Minyak Dan Lemak Limbah Industri. Repository Institut Teknologi Sepuluh Nopember Surabaya, 1–196.
- Mahayothee, B., Thamsala, T., Khuwijitjaru, P., & Janjai, S. (2020). Jo Ur Na L Pr Oo F. *Journal Of Dermatological Science*, 100262. <https://doi.org/10.1016/j.jarmap.2020.100262>
- Marim, R. G., Coelho, G. S., De Azevedo, P. C. C., Borges, D. L. G., Maranhão, T. A., De Oliveira, F. J. S., Bascunã, V. L. A. F., & Chaves, E. S. (2023). Assessment Of Chlorine, Fluorine, And Sulfur Concentrations In Depth Profile Of Drill Cuttings From Onshore And Offshore Oil And Gas

- Exploration Wells. *Journal Of The Brazilian Chemical Society*, 34(3), 414–425. DOI : 10.21577/0103-5053.20220118.
- Martina, A., Effendy, D. S., & Soetedjo, J. N. M. (2018). Aplikasi Koagulan Biji Asam Jawa Dalam Penurunan Konsentrasi Zat Warna Drimaren Red Pada Limbah Tekstil Sintetik Pada Berbagai Variasi Operasi. *Jurnal Rekayasa Proses*, 12(2), 40. <https://doi.org/10.22146/jrekpros.38948>
- Masduqi, A., & Assomadi, A. F. (2016). *Operasi & Proses Pengolahan Air Edisi Kedua* (2nd Ed.). Its Press.
- Muniz, G.L., Silva, T.C.F. Da, Borges, A.C., 2020. Assessment And Optimization Of The Use Of A Novel Natural Coagulant (*Guazuma Ulmifolia*) For Dairy Wastewater Treatment. *Sci. Total Environ.* 744 <https://doi.org/10.1016/j.scitotenv.2020.140864>.
- Nabila, F., Aida, N., & Rohendi, A. (2022). Pengolahan Limbah Cair Rumah Makan Menggunakan Metode Multi Soil Layering (Msl). *Lingkar : Journal Of Environmental Engineering*, 3(1), 73–82. <https://doi.org/10.22373/ljee.v3i1.1928>
- Nanotech. (2012). *Jasa Karakterisasi Psa (Partikel Size Analyzer) Dan Zeta Potensial*. Balai Inkubator Teknologi Serpong-Tangerang.
- Ndabigengesere, A., & Narasiah, K. S. (1998). Quality Of Water Treated By Coagulation Using *Moringa Oleifera* Seeds. *Water Research*, 32(3), 781–791. [https://doi.org/10.1016/S0043-1354\(97\)00295-9](https://doi.org/10.1016/S0043-1354(97)00295-9)
- Nasrulloh, S. Q., Dewi, E. R. S., & Dzakiy, M. A. (2021). Kombinasi Kitosan Cangkang Keong Sawah (*Pila Apollacea*) Dan Kerang Darah (*Anadara Granosa*) Sebagai Biokoagulan Dalam Menurunkan Kadar COD, TSS Pada Limbah Cair Batik. *Prosiding Seminar Nasional Sains Dan Entrepreneurship VII*, 1(1), 162–168. <http://conference.upgris.ac.id/index.php/snse/article/view/2097%0Ahttp://conference.upgris.ac.id/index.php/snse/article/download/2097/1147>
- Nur Kharismasari Faradillah, V., & Pujiastuti, P. (2022). Potensial Fatty Oil Pollution From Restaurant Wastewater. *Jurnal Kimia Dan Rekayasa*, 3(1), 11–20. <https://doi.org/10.31001/jkireka.v3i1.40>

- Noordin, M.Y., Venkatesh, V.C., Sharif, S., Elting, S., Abdullah, A., 2004. Application Of Response Surface Methodology In Describing The Performance Of Coated Carbide Tools When Turning AISI 1045 Steel. *J. Mater. Process Technol.* 145, 46–58. [https://doi.org/10.1016/S0924-0136\(03\)00861-6](https://doi.org/10.1016/S0924-0136(03)00861-6)
- Nurzanah, W., & Dewi, I. (2024). Bahan Limbah Alami Sebagai Bio-Koagulan Pengolahan Air Limbah Domestik. *Jurnal Al Ulum LPPM Universitas Al Washliyah Medan*, 12(2). <https://doi.org/10.47662/Alulum.V12i2.670>
- Nwachukwu, M. A., & Chukwu, A. (2011). *Grease Trap Technology For The Control Of Fats, Oil And Grease (FOG) Discharge In Commercial Kitchen Wastewater*. *Journal Of Environmental Science And Technology*, 4(5), 579–588. <https://doi.org/10.3923/Jest.2011.579.588>
- Okuda, T., Baes, A. U., Nishijima, W., & Okada, M. (2001). Coagulation Mechanism Of Salt Solution-Extracted Active Component In *Moringa Oleifera* Seeds. *Water Research*, 35(3), 830-834.
- Pemerintah Republik Indonesia. (2021). Peraturan Pemerintah Nomor 22 Tahun 2021 Tentang Penyelenggaraan Perlindungan Dan Pengelolaan Lingkungan Hidup. Lembaran Negara Republik Indonesia Tahun 2021 Nomor 33.
- Pemerintah Provinsi Jawa Timur. (2013). Peraturan Gubernur Jawa Timur Nomor 72 Tahun 2013 Tentang Baku Mutu Air Limbah Bagi Industri Di Jawa Timur. Berita Daerah Provinsi Jawa Timur Tahun 2013 Nomor 72.
- Prasetyo, A., Lestari, D., & Wijaya, R. (2022). Pemanfaatan Kulit Jeruk Sebagai Koagulan Alami Dalam Penjernihan Air Limbah. *Jurnal Teknik Lingkungan*, 10(1), 45-58.
- Prasetyo, A., Sari, M., & Nugroho, P. (2022). Flavonoid Sebagai Koagulan Alami Dalam Pengolahan Air Limbah. *Jurnal Sains Dan Teknologi Pangan*, 14(3), 98-112.
- Prasetyo, H., & Wibowo, T. (2020). Penggunaan Koagulan Nabati Dalam Pengolahan Limbah Cair Domestik. *Jurnal Teknologi Lingkungan*, 21(1),
- Sutrisno, A., Widodo, A., & Kurniawan, M. (2019). Efektivitas Ekstrak Daun Pepaya Sebagai Biokoagulan Untuk Mengurangi Kekeruhan Air Limbah.

Jurnal Teknik Lingkungan, 10(2), 75-82.

- Pratama, F. G. (2022). Efektivitas Biokoagulan Kulit Pisang Kepok (*Musa Acuminata* × *Musa Balbisiana*) Dalam Menurunkan Turbiditas, TSS, BOD, Dan COD Pada Air Limbah Industri Tahu. Skripsi, Universitas Brawijaya.
- Puspitasari, H. (2015). Uji Pemanfaatan Tulang Hewan Sebagai Koagulan Alami Pada Pengolahan Air Sungai. Institute Of Sepuluh November Surabaya.
- Putra, D. A., Meriatna, M., Suryati, S., & Zulmiardi, Z. (2022). Pembuatan Zat Emulsifier Dari Minyak Pliek U Dengan Katalis Naoh. *Jurnal Teknologi Kimia Unimal*, 11(1), 22. <https://doi.org/10.29103/Jtku.V11i1.7246>
- Putri, A. S., & Susilo, E. (2019). Analisis Hubungan Total Suspended Solid (Tss) Dengan Jenis Sedimen Dan Kelimpahan Fitoplankton Di Perairan Pulau Payung. Skripsi, Universitas Sriwijaya.
- Qasim, S. R., & Zhu, G. (2017). Wastewater Treatment And Reuse : Theory And Design Examples. In Crc Press.
- Rahayu, D. E., & Aulia, S. (2015). Penurunan Warna Dan Tss Limbah Cair Tenun Sarung Samarinda Menggunakan Kitosan Dari Limbah Cangkang Kepiting. *Jurnal Purifikasi*, 15(1).<https://doi.org/10.12962/J25983806.V15.I1.20>
- Rani R, A. N. (2021). Treatment Of Wastewater Using Orange Peel Powder As Coagulant. *International Journal Of Scientific Engineering And Applied Science (Ijseas)*, 7, 90–97. [www.ijseas.com](http://www.ijseas.com)
- Ramadhani, L. I., Rahmaningsih, Y. D., & Amanda, N. R. (2019). "Efektivitas Biji Kelor Sebagai Koagulan Alami Pada Pengolahan Limbah Cair." *Jurnal Teknik Kimia*, 25(1), 23-29.
- Rattanapan, C., Sawain, A., Suksaroj, T., & Suksaroj, C. (2011). Enhanced Efficiency Of Dissolved Air Flotation For Biodiesel Wastewater Treatment By Acidification And Coagulation Processes. *Desalination*, 280, 370–377.<https://doi.org/10.1016/J.Desal.2011.07.018>
- Rahman, T., & Sari, N. (2021). Pengaruh Variasi Koagulan Kulit Jeruk Untuk Menurunkan Total Suspended Solids (TSS) Pada Limbah Cair Tahu. *Jurnal Teknologi Kimia Unimal*, 9(1), 45-53. <https://doi.org/10.61844/Jtkm.V3i2.958>

- Rahmawati, T., & Sari, D. (2020). Pengaruh Ph Dan Suhu Terhadap Efisiensi Ekstraksi Pektin Dari Kulit Jeruk. *Jurnal Teknologi Lingkungan*, 8(1), 34-45.
- Ratnasari, L. (2019). Konsep Flokulasi Dan Deflokulasi Dalam Sediaan Farmasi. *Farmasetika.Com (Online)*, 4(3), 86. <https://doi.org/10.24198/Farmasetika.V4i3.22860>
- Rizky, M., Pratama, M. A., & Hidayat, T. (2020). Penurunan Kadar BOD, COD, Dan TSS Pada Air Limbah Domestik Dengan Sistem Constructed Wetland Menggunakan Tanaman Kayu Apu (*Pistia Stratiotes L.*). *Jurnal Seoi – Fakultas Teknik Universitas Sahid Jakarta*, 2(1), 56-65.
- Robledo, V. R. And Vázquez, L. I. C. (2019). Pectin - Extraction, Purification, Characterization, And Applications, In: Masuelli, M. (Eds), *Pectins: Extraction, Purification, Characterization And Applications*. Intechopen, London
- Rodríguez, Velastequí, M. (2019). No 主観的健康感を中心とした在宅高齢者における健康関連指標に関する共分散構造分析Title. 6(1), 1–23.
- Roikah, S., Rengga, W. D. P., Latifah, L., & Kusumastuti, E. (2016). Ekstraksi Dan Karakterisasi Pektin Dari Belimbing Wuluh (*Averrhoa Bilimbi,L.*). *Jurnal Bahan Alam Terbarukan*, 5(1), 29–36. <https://doi.org/10.15294/Jbat.V5i1.5432>
- Said, N. S. M., Abdullah, S. R. S., Hasan, H. A., Kurniawan, S. B., & Imron, M. F. (2020). Challenges And Opportunities Of Biocoagulant/Bioflocculant Application For Drinking Water And Wastewater Treatment And Its Potential For Sludge Recovery. *Journal Of Water Process Engineering*, 36, 101111.
- Said, Nusa Idaman. 2017. *Teknologi Pengolahan Air Limbah: Teori Dan Aplikasi*. Jakarta: Erlangga.
- Salehizadeh, H., Yan, N., & Farnood, R. (2018). Recent Advances In Polysaccharide Bio-Based Flocculants For Water And Wastewater Treatment. *Biotechnology Advances*, 36(1), 92–119.
- Saputri, M., Rahman, T., & Nugroho, S. (2020). Potensi Limbah Kulit Jeruk Sebagai Bahan Bernilai Ekonomis Dan Alternatif Pengolahan Limbah. *Jurnal Sumber Daya Alam Dan Lingkungan*, 8(2), 78-91.

- Sari, D. A., Karawang, U. S., Jawa, K., & Indonesia, B. (2020). Teknologi Dan Metode Pengolahan Limbah Cair Sebagai Pencegahan Pencemaran Lingkungan. November. <https://doi.org/10.35261/Barometer.V5i1.3809>
- Sathya, G. R. G., Vamsi, K. S. P., & Sunitha, K. C. (2024). International Journal Of Research Publication And Reviews An Experimental Study On Usage Of Banana Pith And Orange Peelsas Natural Coagulants To Treat River Water. 5, 9993–10000.
- Septianto, F., Masrida, R., & Nuraliyah, A. (2024). Aluminium Chloride ( PAC ) Pada Proses Penjernihan Air. 1(1), 58–71
- Setiawan, O., & Pradipta, T. (2024). Penggunaan Metode Response Surface Methodology Box Behnken Untuk Pemodelan Dan Optimasi Proses Fenton Pada Pengolahan Limbah Cair Home Industri Sarung Tenun Tradisional Medangan Gresik. 20(2), 97–107.
- Setyawati, T. R., Et Al. (2019). "Dosis Koagulan Optimum Pada Proses Koagulasi-Flokulasi Menggunakan Koagulan Serbuk Biji Hanjeli Dalam Menurunkan Kekeruhan." Dampak: Jurnal Teknik Lingkungan Universitas Andalas, 16(2), 87-94.
- Shamira Shaharom, M., & Siti Quraisyah Abg Adenan, D. (2019). Potential Of Orange Peel As A Coagulant For Water Treatment. Infrastructure University Kuala Lumpur Research Journal, 7(1), 63–72.
- Sharma, P., Et Al. (2020). Application Of Natural Coagulants For Wastewater Treatment: Ftir Insights. Applied Water Science, 10(6), 45-60.
- Siregar, S. A. (2005). Instalasi Pengolahan Air Limbah (Pp. 43–50). Kansius.
- Sriamornsak, P. (2003). Chemistry Of Pectin And Its Pharmaceutical Uses: A Review, Silpakorn Univ Int. J., 3, 206–228
- Syawfani, R., Farhan, M., Khairunnisa, A., & Apriani, I. (2024). Pengolahan Limbah Cair Rumah Makan Dengan Menggunakan Specialized Domestic Waste Water Mixed Treatment. Jurnal Teknologi Lingkungan Lahan Basah, 12(2), 361.DOI: 10.26418/Jtlb.V12i2.76330
- Tchobanoglous, G., Stensel, H. D., Tsuchihashi, R., & Burton, F. L. (2014). Wastewater Engineering: Treatment And Resource Recovery (5th Ed.).

Mcgraw-Hill Education.

- Thabrani, M. R., Studi, P., Lingkungan, T., Bandung, N., Studi, P., Lingkungan, T., & Bandung, N. (2024). Uji Efektivitas Pemanfaatan Serbuk Biji Kelor Sebagai Alternatif Koagulan Dalam Menurunkan Cod , Bod , Dan Tss. 10(2), 34–48.
- Tumangger, R. S. S., Muhammad, ZA, N., Jalaluddin, Nurlaila, R., & Ginting, Z. (2022). Pengaruh Asam (HNO<sub>3</sub>) Sebagai Pelarut Pada Ekstraksi Pektin Dari Orka (*Abelmoschus Esculentus*). *Jurnal Teknologi Kimia Unimal*, 11(1), 91–101. <https://Ojs.Unimal.Ac.Id/Jtk/Article/View/7252>
- Untailawan, R., & Siswanta, D. (2022). Pemanfaatan Membran Pec Kitosan Pektin Pegde Untuk Mengadsorpsi Limbah Zat Warna Metilen Biru. *Mjoce*, 12(1), 68–74.
- Venkatanagaraju, E., Bharathi, N., Sindhuja, R. H., Chowdhury, R. R. And Sreelekha, Y. (2019). Extraction And Purification Of Pectin From Agro-Industrial Wastes, In: Masuelli, M., *Pectins - Extraction, Purification, Characterization And Applications*, Intechopen, London.
- Wicaksono, R., Rahayu, T., & Pradana, Y. (2023). Studi Komparatif Biokoagulan Dari Berbagai Tanaman Terhadap Efisiensi Penyisihan Tss Dan Cod. *Jurnal Ilmu Lingkungan*, 22(1), 45-58.
- Wicheisa, F. V., Hanani, Y., & Astorina, N. (2018). Penurunan Kadar Chemical Oxygen Demand (Cod) Pada Limbah Cair Laundry Orens Tembalang Dengan Berbagai Variasi Dosis Karbon Aktif Tempurung Kelapa. *Jurnal Kesehatan Masyarakat*, 6(6), 135–142. [Http://Ejournal3.Undip.Ac.Id/Index.Php/Jkm](http://Ejournal3.Undip.Ac.Id/Index.Php/Jkm)
- Widiastuti, H., Et Al. (2023). Adsorption Properties Of Citrus Peels In Wastewater Treatment: A Review. *Environmental Technology & Innovation*, 27, 102496.
- Widowati, E., Utami, R., Nurhartadi, E., & Fenny, F. (2020). Karakterisasi Bakteri Pektinolitik Dari Limbah Kulit Jeruk Dan Karakterisasi Pektinase Yang Dihasilkan Serta Studi Aplikasinya Untuk Penjernihan Sari Buah Jeruk Pontianak. *Journal Of Tropical Agrifood*, 2(1), 34. DOI: [Http://Dx.Doi.Org/10.35941/Jtaf.2.1.2020.3937.34-44](http://Dx.Doi.Org/10.35941/Jtaf.2.1.2020.3937.34-44)
- Yin, C. Y. (2010). Emerging Usage Of Plant-Based Coagulants For Water And Wastewater Treatment. *Process Biochemistry*, 45(9), 1437-1444.55-63.

- Yulianti, D., Setiawan, A. H., & Prasetyo, A. (2021). Analisis Kualitas Bod, Cod, Dan Tss Limbah Cair Domestik (Grey Water) Pada Rumah Tangga Di Kabupaten Maros. [Http://Orcid.Org/0000-0003-1585-1169](http://Orcid.Org/0000-0003-1585-1169)
- Yustinawati, Nirwana, & Irdoni, H. (2014). Efektifitas Poly Aluminium Chloride (PAC) Pada Pengolahan Limbah Lumpur Pemboran Sumur Minyak. *Jurnal Online Mahasiswa Fakultas Teknik Universitas Riau*, 1(2), 1–10.
- Zaharah, Et Al. (2017). "Reduksi Minyak, Lemak, Dan Bahan Organik Limbah Rumah Makan Menggunakan Grease Trap Termodifikasi Karbon Aktif." *Jurnal Pengelolaan Lingkungan Berkelanjutan*, Universitas Tanjungpura Pontianak, 1(2), 45-53.
- Zakaria, Et Al. (2021). "Efisiensi Penurunan Kadar COD, TSS, Dan TDS Pada Air Limbah Industri Pangan Menggunakan Koagulan Poly Alumunium Chloride Dengan Metode Jar Test." *Warta Akab*, 43(1), 1-10.DOI: 10.55075/Wa.V45i2.60
- Zhao, N., Al Bitar, H., Zhu, Y., Xu, Y., & Shi, Z. (2020). Synthesis Of Polymer Grafted Starches And Their Flocculation Properties In Clay Suspension. *Minerals*, 10(12), 1–12.<https://doi.org/10.3390/min10121054>
- Zhao, C., Zhou, J., Yan, Y., Yang, L., Xing, G., Li, H., Wu, P., Wang, M., & Zheng, H. (2021). Application Of Coagulation/Flocculation In Oily Wastewater Treatment: A Review. *Science Of The Total Environment*, 765. <https://doi.org/10.1016/j.scitotenv.2020.142795>
- 1h2o3. (N.D.). Relation Between Bod And Cod. Retrieved February 12, 2025, From <https://www.1h2o3.com/en/learn/wastewater-parameters/wastewater-quality-criteria/relation-between-bod-and-cod/>